

10/552234

JC09 Rec'd PCT/PTO 07 OCT 2009

AMENDMENT
under PCT Article 34
(Filed on November 30, 2004)

Note: Underlined parts are amended by
the amendment under PCT Article 34.

A 30 mass% of Co was loaded on a support of silica having physical properties as shown in column E in Table 1 and a Fischer-Tropsch synthesis reaction was carried out by setting the W/F to be 1.5. As a result, the CO conversion was 71.7%, CH₄ selectivity was 4.4% and CO₂ selectivity was 0.7 %, and the production rate of the hydrocarbon having a carbon number of 5 or above was 1.9 (kg - hydrocarbon/kg - catalyst · hour)

(Example 7)

A 16 mass% of Co was loaded on a support of silica having physical properties as shown in column F in Table 1 and a Fischer-Tropsch synthesis reaction was carried out by setting the W/F to be 2. As a result, the CO conversion was 74.8%, CH₄ selectivity was 4.9% and CO₂ selectivity was 1.1 %, and the production rate of the hydrocarbon having a carbon number of 5 or above was 1.4 (kg - hydrocarbon/kg - catalyst · hour)

(Comparison example 1)

A 20 mass% of Co was loaded on a support of silica having a large amount of impurities as shown in column G in Table 1 and a Fischer-Tropsch synthesis reaction was carried out. As a result, the CO conversion was 24.0%, CH₄ selectivity was 8.3% and CO₂ selectivity was 0.84 %.

Industrial Applicability

As has been detailed in the above, according to